

Application No. 09/593,121
Response to Office Action of March 31, 2004

DRAWINGS

In the office action, the examiner objects to Figs. 1-3 as needing the legend "Prior Art." The examiner is correct with respect to Figs. 1 and 2, and corrected versions of those two drawings are enclosed herewith. On the other hand, Fig. 3 illustrates a part of what Applicants consider novel in their invention: the alignment of connections in the fine grid with the coarse grid for unstructured grids. This is discussed on pages 9-10 of the present application, beginning on line 28. A key to the advance in Fig. 3 can be seen by comparing the larger triangles connecting six nodes. These triangles are subdivided into four smaller, but similar (in the strict, geometry meaning of the word) triangles, which is not the case in Fig. 2. This formulation is important in obtaining a practical, efficient method for doing flow-based upscaling on unstructured grids.

If the examiner wishes to discuss this application with counsel, please contact the undersigned.

Respectfully submitted,

June 1, 2004
Date

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I hereby certify that this correspondence is being transmitted via facsimile to Examiner W. P. Neuder, Technology Center 3600, United States Patent and Trademark Office at (703) 872-9306 on June 1, 2004.

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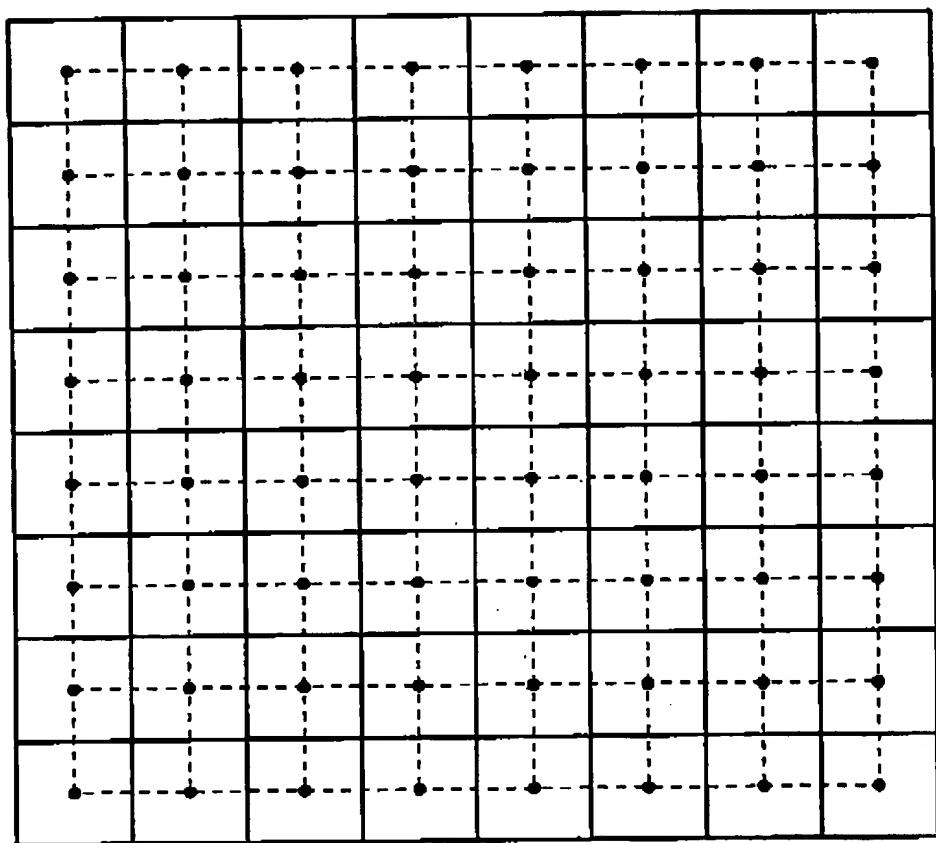


FIG. 1
(Prior Art)

98.048

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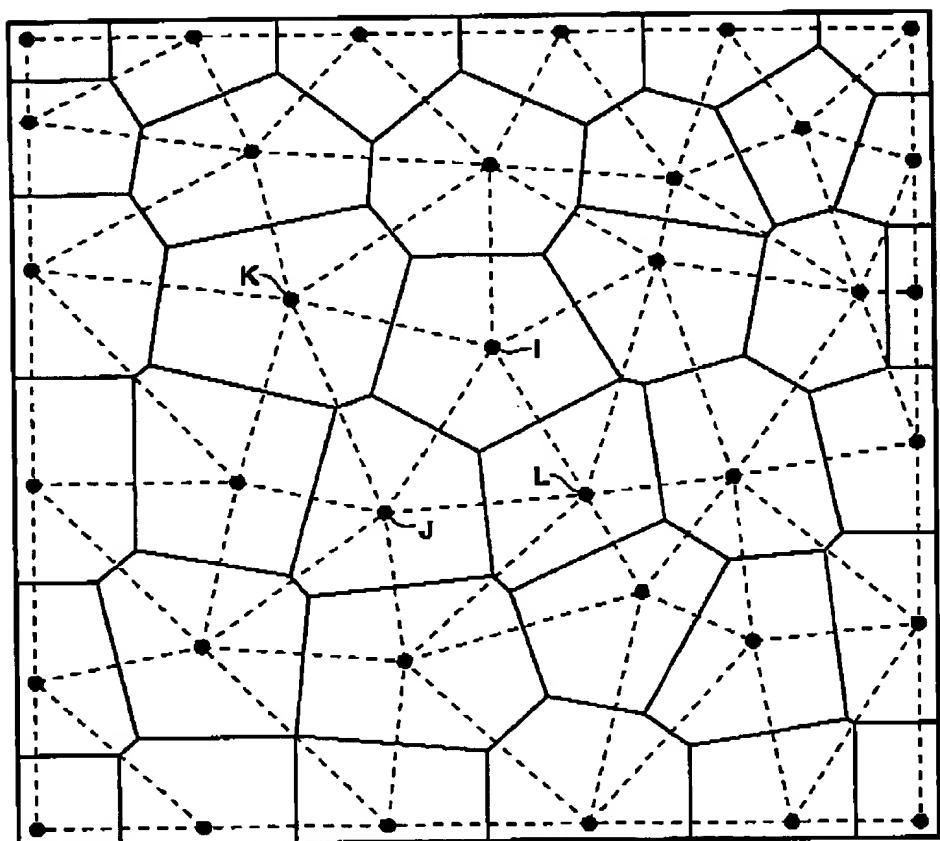


FIG. 2
(Prior Art)